

## Sub-Picture Level Pass through

### ABSTRACT OF THE DISCLOSURE

5           The invention described herein improves and expedites compressed video data  
delivery by providing systems and methods for transcoding and pass through on a sub-picture  
level. For example, in MPEG embodiments described herein, transcoding and compressed  
video data pass through may occur on a macroblock or slice level. This permits portions of a  
picture that need no rate reduction to be passed through without transcoding. The invention  
10   may also implement pass through on a picture by picture basis. Accordingly, the invention  
may determine transcoding or pass through for each picture or picture subregion. Thus,  
systems and methods described herein provide flexible compressed video data transcoding  
and pass through, as determined by varying bit rate demands of compressed video data  
transmission.

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